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| Michael T. Davis  Algebra II – Delta & Eta | | Graphing Quadratic Functions in Vertex Form  May 14, 2015 | |
| Name: | |

1. The vertex form of a quadratic equation with vertex  is 

2. What does changing the "a" parameter do to the graph of a quadratic?

3. Being specific, name 3 ways that a parabola changes with different types of "a" values.

4. What does changing the "h" parameter do to the graph of a quadratic?

5. If "h" is positive how does the parabola move? If negative?

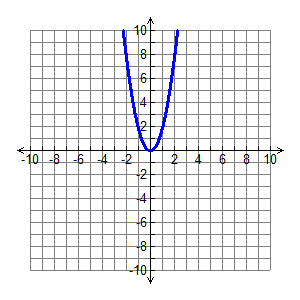
6. What does changing the "k" parameter do to the graph of a quadratic?

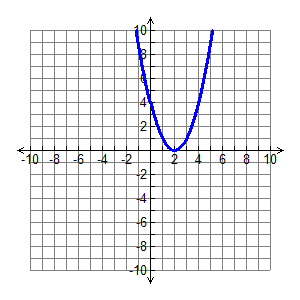
7. If "k" is positive how does the parabola move? If negative?

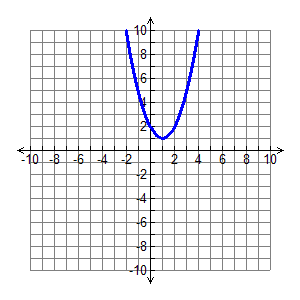
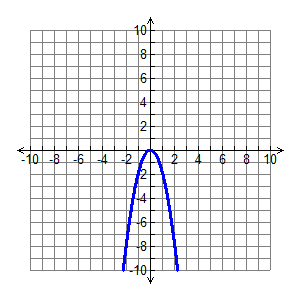
8. What conclusion can you make about the parameters h and k together?

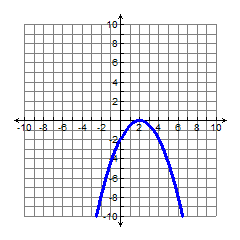
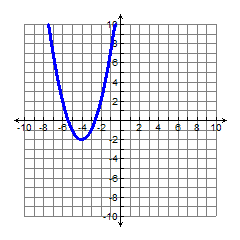
9. How can you use the vertex form of a parabola to predict how many zeroes it will have? How?

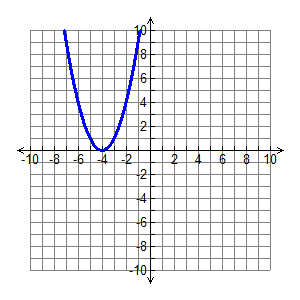
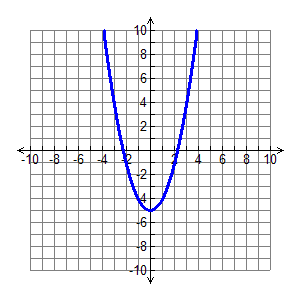
Write the quadratic equation, in vertex form for each graph.



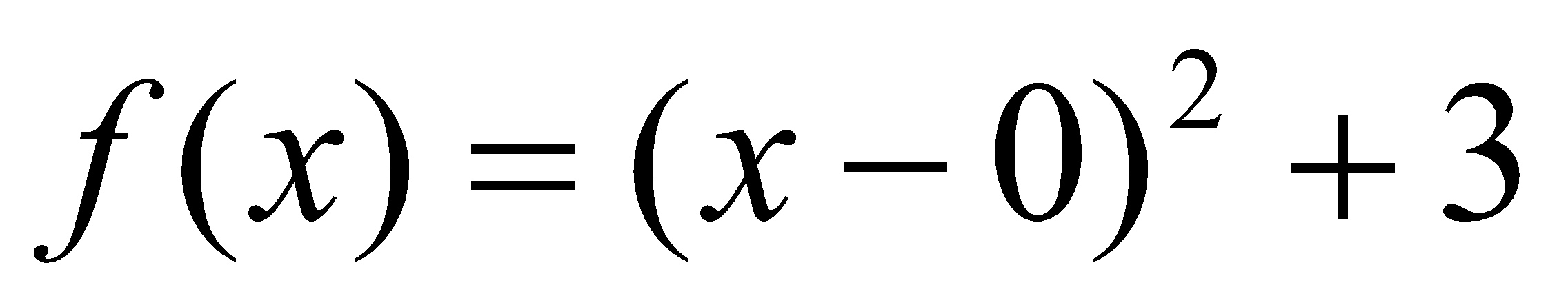
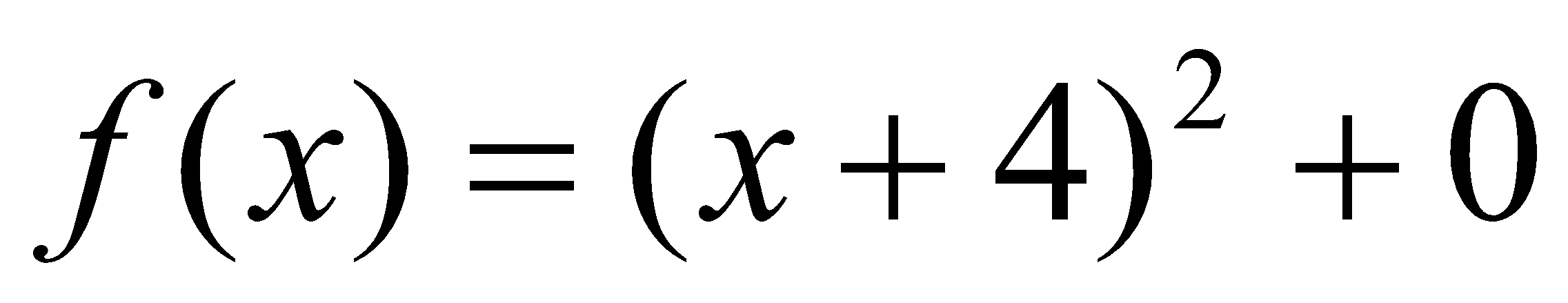


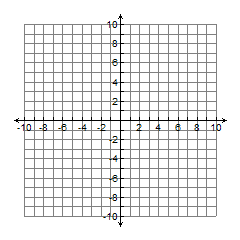
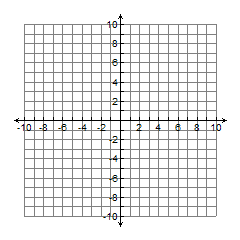


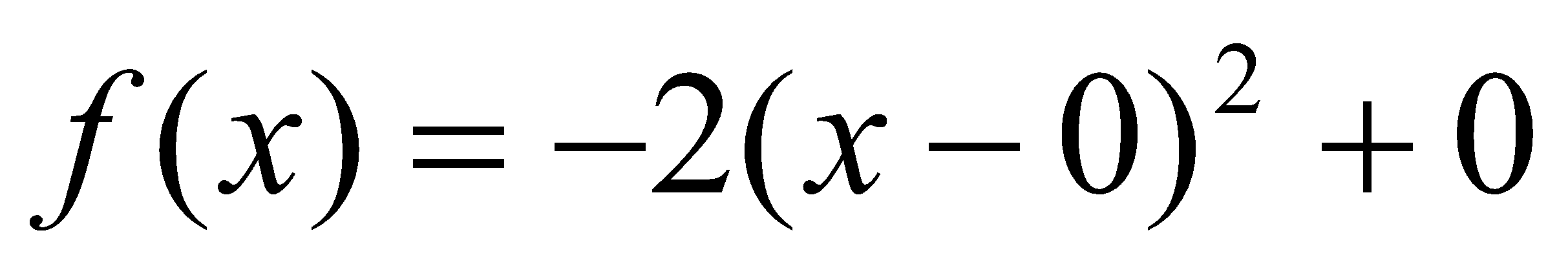
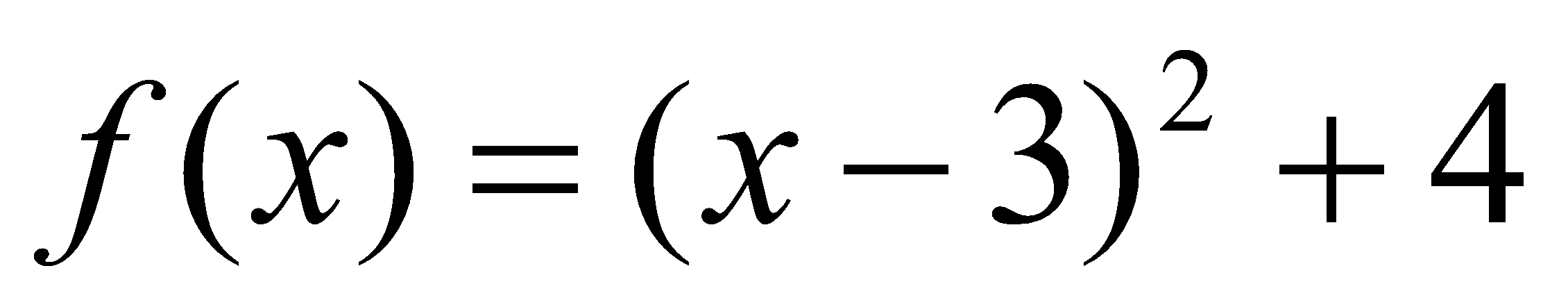


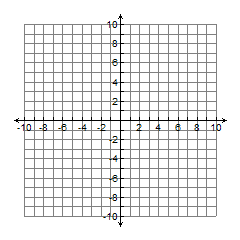
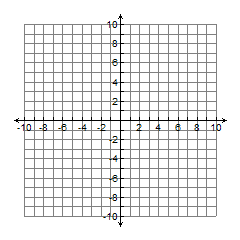


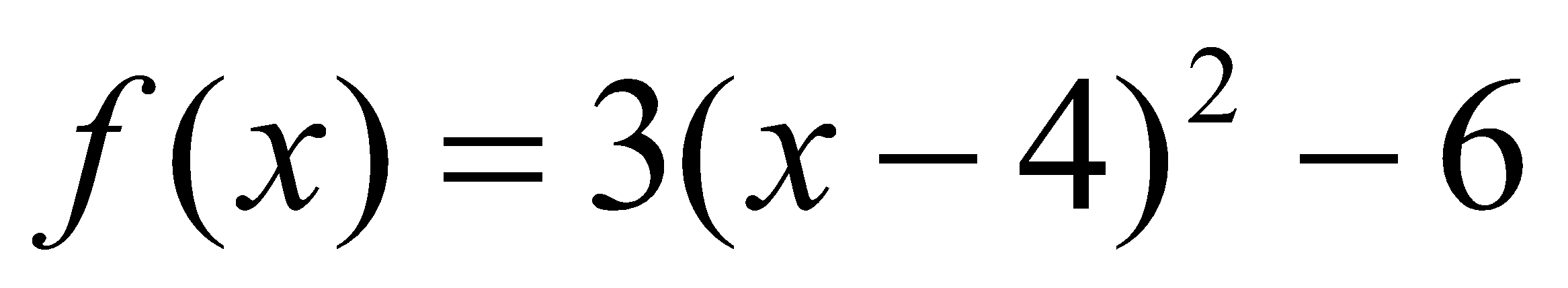
Graph the quadratic equation on the provided grid.

11.  12. 



13.  14. 



15.  16. 